

PRESSURE MEASURING DEVICE WITH LOGGER



LOGGER FUNCTION



GMH 3151



GMH 3156

HIGHLIGHTS:

- 4½-digit display, probes with higher resolution up on request
- Peak value memory 1000 measurements / s
- Analog output 0 ... 1 V
- Digital adjustable
- Integrated horn

ADDITIONAL FUNCTIONS GMH 3156:

- 2 GMSD/MSD-probes connectable.
- Difference measurement of two probes

Suitable pressure probes
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GMH 3151

Art. no. 600381

Pressure measuring device with 1 sensor connection, analog output and data logger, without sensor

GMH 3156

Art. no. 600386

Pressure measuring device with 2 sensor connections, analog output and data logger, without sensor

GMH 3151-EX

Art. no. 600383

EX-Pressure measuring device with 1 sensor connection, analog output and data logger, without sensor (see previous page for information on Ex versions)

GMH 3156-EX

Art. no. 600394

EX-Pressure measuring device with 2 sensor connections, analog output and data logger, without sensor (see previous page for information on Ex versions)

Specifications:

Max. display range:	-19999 ... +19999 digit
Measuring range:	corresponding to used probe
Overload:	corresponding to used probe
Resolution:	corresponding to used probe
Accuracy (device):	±0.1 % FS ±1 digit (at nominal temperature = 25 °C)
Pressure units*:	mbar, bar, Pa, kPa, MPa, mmHg, PSI, mH ₂ O, can be selected.
Probe connection:	1, bei GMH 3156/-EX: 2 6-pin screened lockable Mini-DIN-socket(s) for GMSD/MSD-sensors. Automatic probe detection and setting of measuring range upon plugging in of probe.
Display:	2 x 4½ digit LCD
Output:	serial interface or AAG
Serial interface:	direct connection to RS232 or USB interface of a PC via electrically isolated interface converter GRS 3100, GRS 3105 or USB 3100 N.
Analog output:	0 ... 1 V, freely adjustable (resolution 12 bit)
Power supply:	9 V-battery, d.c. connector * for external 10.5 ... 12 V direct voltage supply. (i. e. GNG10/3000)
Sensor adjustment:	digital offset and scale input
Measuring cycle: „slow“	4 measurements / s
„fast“ / „peak-detect“	≥1000 measurements / s
peak-detect:	The min- / max- value memory stored unfiltered pressure peaks ≥1 ms

Logger functions

manually data sets:	99 data sets
cycle data sets:	10000 GMH 3156/-EX: 4000 (max. 64 recording sequences)
adjustable cycle time:	1 ... 3600 s
Averaging function:	x
Battery life:	approx. 180 h (4 measurements / s) approx. 40 h (1000 measurements / s)
Operating conditions:	-25 ... +50 °C, 0 ... +95 % RH (non condensing), GMH 315x-EX: -10 ... +50 °C, 0 ... 95 % RH (non condensing)
Housing:	impact-resistant ABS plastic housing, foil keypad, clear viewing pane GMH315x-EX only: pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	approx. 150 g, GMH 315x-EX: approx. 190 g (incl. case)
Scope of supply:	Device, battery, calibration protocol, manual

Additional functions:

Averaging function: integrates the meas. values during a selectable period of time and then calculates the average display value.

Sea-Level-correction: when connecting an abs. pressure probe the barom. air pressure can also be displayed corrected to sea level „zero“. (Air pressure compensation achieved by entering the meters above sea level „zero“)

Logger Functions:
- manual: 99 data sets
- cyclic: 10000 data sets (GMH 3151)
4000 data sets (GMH 3156)
(max. 64 Aufzeichnungsreihen), adjustable cycle time: 1 ... 3600 s; The logger is started or stopped by keypad or interface. The software GSOFT3050 (see accessories) is available for comfortable read-out of logger data.

* Note to the pressure unit selection: (information for all GMH 31xx)

The choice of a specific pressure unit is possible, if its whole measuring range is displayable within the display of the device and the sensor is supporting these resolution.